Comparing Census and CensusAtSchool using Ratios, Fractions, Decimals and Percentages

In QuickCaS Activity 10A you would have investigated Ratio, Fractions, Decimals and Percentages using a random sample taken from CensusAtSchool.

Task:

1. The most recent Census was in 2011. The Census information has already been put in the table below for you. Complete the rest of the table for 'Ratio, Fraction, Decimal and Percentage'

Census 2011 Counts

State	Frequency	Ratio	Fraction	Decimal	Percentage
ACT	357 218				
NSW	6 917 656				
NT	211 943				
Queensland	4 332 737				
SA	1 596 570				
Tasmania	495 351				
Victoria	5 354 040				
WA	2 239 171				
Total	21 507 717	1:1	1/1	1.0	100%

2. Choose one of the categories from the Census table above, (Ratio, Fraction, Decimal or Percentage) and fill in the map of Australia by writing the appropriate number in each state. Do not choose frequency.

3. We want to compare CensusAtSchool data and Census data. Add this information to your map of Australia. Go back to your table from Activity 10A, and select the category that matches the category of Census data you

wrote on your Australian map. Add the CensusAtSchool data to your Australian map too.

4. Which state had the largest portion of people living in it on Census night?

_____

5. Which state had the smallest portion of people living in it on Census night?

_____

6. Rank all the states from largest to smallest portions of the population count on Census night.

Outline in red the border of the state you live.
Shade in green the state with the largest portion.
Shade in yellow the state with the smallest portion.

7. Write a summary paragraph comparing your Census and CensusAtSchool results looking at population of states and territories of Australia.

8. Why would taking a larger random sample for CensusAtSchool make your calculations more accurate?

9. Why will CensusAtSchool data differ from Census data?